BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads at Katteramma Temple Surrounding Areas in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.**

			Estimate Cost:						3500000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2016-17**	Cum							
	Katteramma Temple Surrounding Area		1	66.00	4.00	0.20	52.80		
			1	60.00	4.00	0.20	48.00		
	Basic Rate	82.00					**100.80**	199.36	**20096.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		188.08							
	Area Weightage @ 6%	11.28							
	Total	**199.36**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2016-17**	Cum							
	Katteramma Temple Surrounding Area		1	66.00	4.00	0.15	39.60		
			1	60.00	4.00	0.15	36.00		
	Basic Rate	4867.00					**75.60**	5159.02	**390022.00**
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 51.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints **including groove cutting charges**, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. **- M20 (at 300Kg per cum coarse**	Cum							
	Katteramma Temple Surrounding Area		1	66.00	4.00	0.125	33.00		
			1	60.00	4.00	0.125	30.00		
	Basic Rate	5197.00					**63.00**	5508.82	**347056.00**
	Area Weightage @ 6%	311.82							
	Total	**5508.82**							
4	**Vaccum de-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. **Page No. 177 / Item No. 22.7, PWD SR 2016-17**	Sqm							
	Katteramma Temple Surrounding Area		1	66.00	4.00		264.00		
			1	60.00	4.00		240.00		
	Basic Rate	90.00					**504.00**	95.40	**48082.00**
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
5	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 158 / Item No. 20.18, PWD SR 2016-17**	Cum							
	Katteramma Temple Surrounding Roads		1	250.00	4.50	0.23	258.75		
			1	150.00	4.50	0.23	155.25		
							414.00	1768.08	**731985.00**
	Basic Rate	1668.00							
	Area Weightage @ 6%	100.08							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	**1768.08**							
6	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to ceive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **Page No. 161 / Item No. 21.6, PWD SR 2016-17**	Sqm							
	Katteramma Temple Surrounding Roads		1	250.00	5.50		1375.00		
			1	150.00	6.00		900.00		
							2275.00	3.18	**7235.00**
	Basic Rate	3.00							
	Area Weightage @ 6%	0.18							
	Total	**3.18**							
7	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **Page No. 161 / Item No. 21.7 PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 3				2275.00		
							2275.00	11.66	**26527.00**
	asper Revised Basic Rate	11.00							
	Area Weightage @ 6%	0.66							
	Total	**11.66**							
9	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with sensor paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen **Page No. 21.17.4, Page No. 162, PWD SR 2016-17**	Cum							
	Katteramma Temple Surrounding Roads		1	250.00	5.50	0.050	68.75		
			1	150.00	6.00	0.050	45.00		
	Revised Basic Rate	6770.00					**113.75**	7176.20	**816293.00**
	Area Weightage @ 6%	406.20							
	Total	**7176.20**							
10	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **Page No. 161 / Item No. 21.7 PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 7				2275.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							2275.00	11.66	**26527.00**
	asper Revised Basic Rate	11.00							
	Area Weightage @ 6%	0.66							
	Total	**11.66**							
11	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - **using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 165 / Item No. 21.22.6, PWD SR 2016-17**	Cum							
	Katteramma Temple Surrounding Roads		1	250.00	5.50	0.040	55.00		
			1	150.00	6.00	0.040	36.00		
	Revised Basic Rate	7659.00					**91.00**	8118.54	**738787.00**
	Area Weightage @ 6%	459.54							
	Total	**8118.54**							
	Sub Total								**3152610.00**
	KRIDL Charges @ 10%								**315261.00**
	labour Cess @ 1%								**31526.00**
	Miscellaneous and other Charges	L/S							**603.00**
								Total	**3500000.00**
Rupees Thirty Five Lakh(s) Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2017-18 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

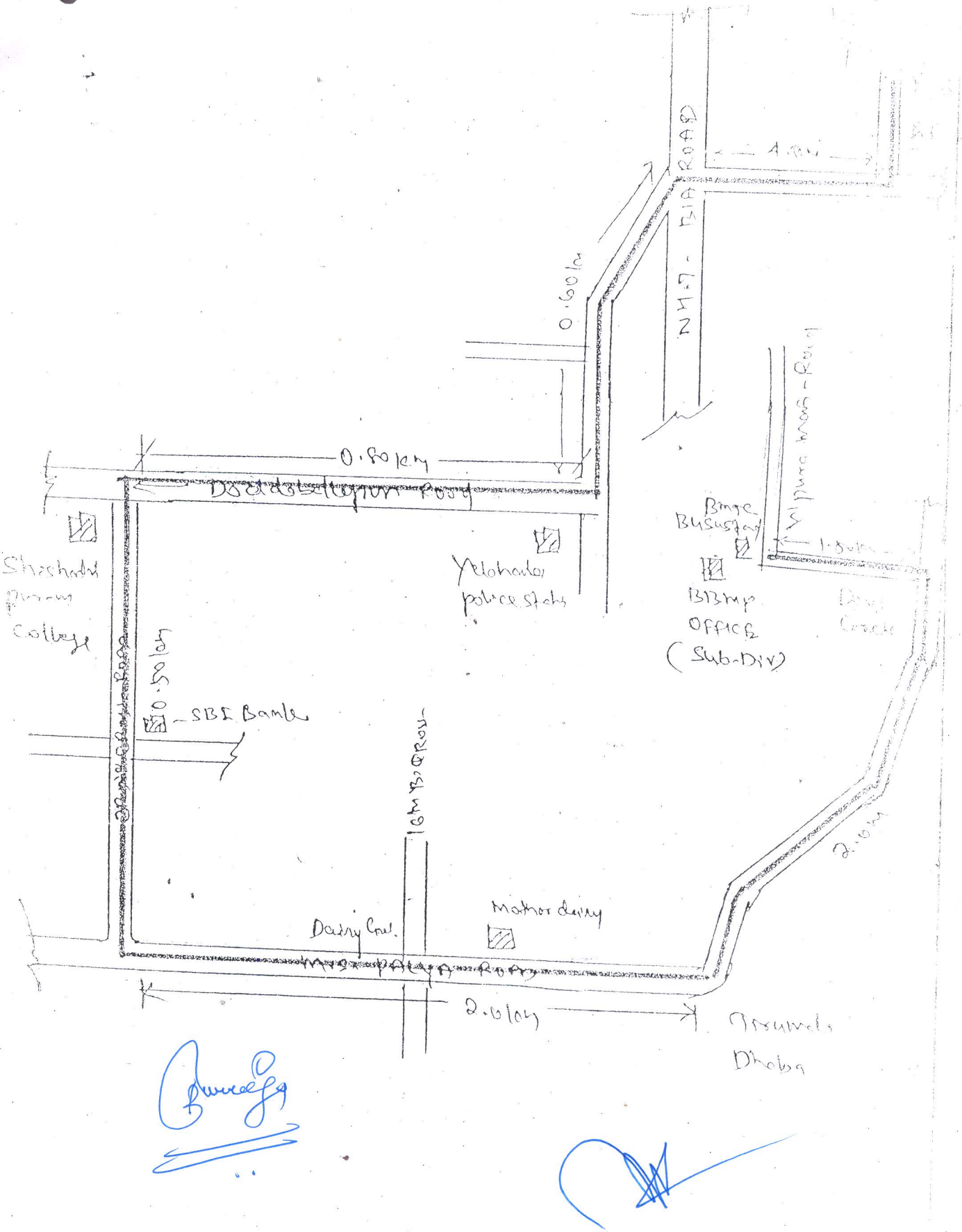
Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. Thirty Five lakhs only
Head of A/c P-1878
Div. Ref. No. 211/17-18 Date 22/03/18
AE 22/03 EE(BTP) 22/03

Technical Sanction
Accorded For 35.00 lakh Rs.
Head of A/C P1878
CER NO : 837 Dt: 13/03/18


0.80 km
Yelahanka police station
BBMP Offices (Sub-Div)
Binge Bussiness Centre
1.0 km
Drain Canal
Shashadri Pu-ay College
0.50 km
SBI Bank
10m RD ROW
Dairy Cal.
Mother dairy
2.0 km
Ground
Dhaba